

Honeywell Oxyshield[®],ç BOEB Biaxially Oriented, Co-Extruded Nylon 6/EVOH/Nylon 6 Clear Film

Category : Polymer , Film , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Film Grade

Material Notes:

Description: Oxyshield[®],ç BOEB is a 0.60 mil (15 micron) biaxially oriented, coextruded nylon 6/EVOH/nylon 6 clear film having excellent gas barrier through a broad range of relative humidity. The film provides high strength, good chemical resistance, and excellent flavor and aroma barrier for food packaging. Information provided by Honeywell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Honeywell-Oxyshield-BOEB-Biaxially-Oriented-Co-Extruded-Nylon-6EVOHNylon-6-Clear-Film.php

Physical Properties	Metric	English	Comments
Water Vapor Transmission	100 g/m ² /day	6.44 g/100 in ² /day	104°F (40°C) / 90%RH; ASTM E96
Oxygen Transmission Rate	1.50 cc/m ² /day	0.0966 cc/100 in ² /day	68°F (20°C) / 65%RH; ASTM D3985
Thickness	15.2 microns	0.600 mil	
Surface Tension	36 - 38 dynes/cm	36 - 38 dynes/cm	untreated side; ASTM D2578
	>= 46 dynes/cm	>= 46 dynes/cm	treated side; ASTM D2578

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	110 %	110 %	ASTM D882
Film Elongation at Break, TD	100 %	100 %	ASTM D882
Secant Modulus, MD	1.60 GPa	232 ksi	ASTM D882
Secant Modulus, TD	1.50 GPa	218 ksi	ASTM D882
Coefficient of Friction	0.15	0.15	film to stainless steel; ASTM D1894
	0.50	0.50	film to film; ASTM D1894
Film Tensile Strength at Break, MD	190 MPa	27600 psi	ASTM D882
Film Tensile Strength at Break, TD	200 MPa	29000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Shrinkage, MD	1.6 %	1.6 %	hot air, 320°F/160°C - 5 min.
	2.8 %	2.8 %	hot water, 203°F/95°C - 5 min.
Shrinkage, TD	0.30 %	0.30 %	hot air, 320°F/160°C - 5 min.

Thermal Properties	1.4% Metric	1.4% English	hot water, 203Å°F/95Å°C - 5 min. Comments
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Optical Properties	Metric	English	Comments
Haze	4.0 %	4.0 %	ASTM D1003
Gloss	170 %	170 %	at 20Å°; ASTM D523
Transmission, Visible	88 %	88 %	

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